Table of Contents

Volume 5 1985/86

Number 1 1985

R. Williams
The Potential Impact of a Krill Fishery upon Pelagic Fish in the Prydz Bay Area of Antarctica 1

D. D. French, V. R. Smith
A Comparison Between Northern and Southern Hemisphere Tundras and Related Ecosystems 5

E. Theriot, G. Fryxell
Multivariate Statistical Analysis of Net Diatom Species Distributions in the Southwestern Atlantic and Indian Ocean 23

D. Adelung, K. Bößmann, D. Rößler
The Distribution of Fluoride in Some Antarctic Seals 31

E. R. Marschoff
Profile Analysis of *Euphausia superba* Larvae Vertical Distribution in the Scotia Sea, Related to Time Factor 35

G. Hubold
Stomach Contents of the Antarctic Silverfish *Pleuragramma antarcticum* from the Southern and Eastern Weddell Sea (Antarctica) 43

O. Halvorsen, A. Skorping, K. Hansen
Seasonal Cycles in the Output of First Stage Larvae of the Nematode *Elaphostrongylus rangiferi* from Reindeer, *Rangifer tarandus tarandus* 49

K. Hulsemann
A New Species of *Neoscolecithrix* Canu (Copepoda Calanoida) in Antarctic Water with Remarks on the Genus 55

Book Reviews 63

Number 2 1986

J. Priddle, R. B. Heywood, E. Theriot
Some Environmental Factors Influencing Phytoplankton in the Southern Ocean Around South Georgia 65

B. P. Boden, L. D. Parker
The Plankton of the Prince Edward Islands 81

R. C. Davis
Environmental Factors Influencing Decomposition Rates in Two Antarctic Moss Communities 95

M. M. Tilzer, M. Elbrächter, W. W. Gieskes, B. Beese
Light-Temperature Interactions in the Control of Photosynthesis in Antarctic Phytoplankton 105

M. Sonesson
Photosynthesis in Lichen Populations from Different Altitudes in Swedish Lapland 113

F. P. Ojeda
Morphological Characterization of the Alimentary Tract of Antarctic Fishes and Its Relation to Feeding Habits 125

Number 3 1986

C. Stushnoff, O. Junttila
Seasonal Development of Cold Stress Resistance in Several Plant Species at a Coastal and a Continental Location in North Norway 129

J. B. McClintock, J. M. Lawrence
Movement Patterns of the Sub-Antarctic Pulmonate Limpet *Kerguelenella lateralis* (Gould) (Mollusca: Gastropoda) 135

G. Steinhagen-Schneider
Cadmium and Copper Levels in Seals, Penguins and Skuas from the Weddell Sea in 1982/1983 139

J.-W. Wägele
Serolis luethjei n.sp., a New Isopod Crustacean from the Weddell Sea 145

W. G. Harrison, T. Platt
Photosynthesis-Irradiance Relationships in Polar and Temperate Phytoplankton Populations (Review) 153

L. Beyens, D. Chardez, R. DeLandtsheer, P. De Bock, E. Jacques
Testate Amoebae Populations from Moss and Lichen Habitats in the Arctic 165

R. M. G. Wells
Cutaneous Oxygen Uptake in the Antarctic Icequab, *Rhigophila dearborni* (Pisces: Zoarcidae) 175

W. Hagen, H. Kapp
Heterokrohnia longicaudata, a New Species of Chaetognatha from Antarctic Waters 181

M. Spindler, G. S. Dieckmann
Distribution and Abundance of the Planktic Foraminifer *Neogloboquadrina pachyderma* in Sea Ice of the Weddell Sea (Antarctica) 185

Book Review 192

Number 4 1986

Acknowledgement to Referees 193

A. J. Ramsay, R. E. Stannard
Numbers and Viability of Bacteria in Ornithogenic Soils of Antarctica 195

G. Liebezeit, M. Bölter
Distribution of Particulate Amino Acids in the Bransfield Strait 199

H. J. Marchant, R. A. Perrin
Planktonic Choanoflagellates from Two Antarctic Lakes Including the Description of *Spiraloecion didymocostatum* Gen. et Sp. Nov. 207

S. C. Whalen, V. Alexander
Chemical Influences on ^{14}C and ^{15}N Primary Production in an Arctic Lake 211

E. Brinton, M. Huntley, A. W. Townsend
Larvae of *Euphausia superba* in the Scotia Sea and Bransfield Strait in March 1984 – Development and Abundance Compared with 1981 Larvae 221

I.-B. Falk-Petersen, S. Falk-Petersen, J. R. Sargent
Nature, Origin and Possible Roles of Lipid Deposits in *Maurolicus muelleri* (Gmelin) and *Benthosema glaciale* (Reinhart) from Ullsfjorden, Northern Norway 235

G. A. Vargo, K. Fanning, C. Heil, L. Bell
Growth Rates and the Salinity Response of an Antarctic Ice Microflora Community 241

M. Bouvy, M. Le Romancer, D. Delille
Significance of Microheterotrophs in Relation to the Degradation Process of Subantarctic Kelp Beds *(Macrocystis pyrifera)* 249

L. Kappen, M. Bölter, A. Kühn
Field Measurements of Net Photosynthesis of Lichens in the Antarctic (Short Communication) 255

Indexed in *Current Contents*